



# ICT 500



The Martin Audio ICT 500 is a compact full-range loudspeaker designed for professional applications where both compact size and high output are required. The ICT 500 is capable of producing SPL's normally associated with larger enclosures and its high efficiency and superior dynamic performance ensures smooth natural reproduction. The ICT 500 has been engineered to combine high level reproduction with a very wide bandwidth, accuracy and maximum intelligibility.

To achieve extended bandwidth and high output capability from an enclosure only 55 litres in volume, the ICT 500 features two forward facing 10" drivers utilising patented Pro ICT (Inductively Coupled Transducer) technology plus two internally mounted long excursion high powered 10" bass drivers uniquely aligned to extend the bass response below 45Hz.

The revolutionary ICT principle uses the magnetic field generated by the low frequency driver's voice coil to

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## FEATURES

Twin Driver ICT Technology  
plus Twin Internally Mounted Bass Drivers

High SPL Capability

Compact Enclosure

Rugged Plywood Construction  
with Steel Protective Grille

Wide Dispersion

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## APPLICATIONS

Live Sound Amplification

High Performance Vocal System

Music Playback

AV Presentations

Theatre Installations

inductively drive an aluminium high frequency diaphragm located at the centre of the unit and horn loaded by a phase plug and waveguide.

Because the HF diaphragm is energised by induction, it has no voice coil. This means that the most common form of failure in music systems - tweeter voice coil burnout - has been eliminated. In addition, although the ICT unit is a true two-way device, there is no separate electrical crossover network, since the crossover function is inherent in the ICT principle. An internally mounted filter ensures smooth transition from the bass section into the twin 10" ICT drivers.

The M2 is an advanced Martin system controller designed to control full range ICT 500 systems. For applications where additional ultra low frequency enhancement is required a paralleled sub bass system can be used in conjunction with the ICT 500 and M2 controller. In this mode the M2 system controller will provide all necessary EQ functions and dedicated electronic mono sub output for additional amplified ICS 300 bass enclosures.

# ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The loudspeaker system shall be of the two-way type consisting of two ten inch horizontally mounted loudspeakers, both of which shall be a Pro ICT device with a concentric high frequency diaphragm loaded by a phase plug and wave guide plus two internally mounted bass drivers. The transducers shall be mounted in an enclosure with an integral pole mount socket and threaded inserts for wall and ceiling mounting.

Performance of the loudspeaker system combined with the system controller shall meet or exceed the following criteria:

Frequency response measured at one metre on axis shall be 45Hz - 18kHz +/- 3dB

The power handling shall be 700W AES, 1200W peak

Sensitivity measured in half space conditions at 1 metre with 1 Watt input shall be 96dB

Maximum SPL measured at 1 metre on axis shall be 121dB continuous, 127dB peak

High frequency dispersion at the -6dB points shall be 100 degs horizontal x 40 degs vertical

Dimensions (W) 565mm x (H) 415mm x (D) 440mm

The weight shall be 31kg

## ICT 500 SPECIFICATIONS

TYPE	Twin-driver ICT Twin high excursion 10" bass
BANDWIDTH	45Hz-18kHz (with equaliser)
DRIVERS	2 x 10" (250mm) full-range ICT drivers 2 x 10" high powered bass driver
RATED POWER	700W AES, 1200W peak
RECOMMENDED AMPLIFIER	500-1000W into 4 Ohms
SENSITIVITY (1)	96dB 1 watt/1 metre
MAXIMUM SPL (2)	121dB continuous, 127dB peak
IMPEDANCE	4 Ohms nominal
DISPERSION (-6dB POINTS)	100 deg Horizontal x 40 deg Vertical

ENCLOSURE	Multi-laminate birch ply
FINISH	Textured paint
PROTECTIVE GRILLE	Perforated steel with 48% free air flow
CONNECTORS	1 x Neutrik NL4
FITTINGS	5 x M8 inserts 1 x pole mount socket
DIMENSIONS	(W) 565mm x (H) 415mm x (D) 440mm (W) 22.25in x (H) 16.3in x (D) 17.3in
WEIGHT	31kg (68.3lbs)
SHIPPING DIMENSIONS	(W) 625mm x (H) 470mm x (D) 505mm (W) 24.6in x (H) 18.5in x (D) 19.9in
SHIPPING WEIGHT	33kg (72.75lbs)

## M2 SPECIFICATIONS

GAIN	0dB @ 1kHz
HUM & NOISE	-90dBm 20Hz-20kHz
INPUTS	Left & right, 2 x combined XLR / 1/4" TRS jack, electronically balanced pin 2+ / pin 3-
OUTPUTS	Left, right and mono sub bass, 3 x stereo 1/4" jacks, quasi balanced
MAXIMUM INPUT	+20dBu
MAXIMUM OUTPUT	+20dBu
FRONT PANEL INDICATORS	Full range LED

ELECTRONIC CROSSOVER FREQUENCY	120Hz
MAINS SUPPLY	100/110/220/240 V AC 50/60Hz
DIMENSIONS	(W) 483mm x (H) 45mm x (D) 102mm (W) 19.0in x (H) 1.8in x (D) 4.0in
WEIGHT	1.2kg (2.6lbs)
SHIPPING DIMENSIONS	(W) 570mm x (H) 70mm x (D) 120mm (W) 22.4in x (H) 2.75in x (D) 4.7in
SHIPPING WEIGHT	3kg (6.6lbs)

### NOTES

- Sensitivity measured in half-space conditions at 1 metre with 2V input, using band limited pink noise.
- SPL measured at 1 metre using band limited pink noise.

Trade Descriptions Act: Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice.

Martin Audio is committed to refining the state of the art sound reinforcement combining in-depth product and field applications research with advanced manufacturing techniques. Every Martin product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.



### MARTIN AUDIO LIMITED

Century Point, Halifax Road, Cressex Business Park, High Wycombe, Buckinghamshire HP12 3SL England  
Telephone: 01494 535312 (International +44 1494 535312) Fax: 01494 438669 (International +44 1494 438669)



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